PRACTICAL SPAN RANGES FOR STRUCTURAL SYSTEMS

This chart gives practical ranges for various structural systems. Greater or lesser spans may be possible in some circumstances. Page references are included where a system is covered in greater detail elsewhere in this book.

STRUCTURAL SYSTEM		Pages
WOOD	Joists	56–57
	Decking	54–55
	Solid Beams	60–61
	Rafter Pairs	58–59
	Light Floor Trusses	64–65
	Light Roof Trusses	64–65
	Glue Laminated Beams	62–63
	Heavy Trusses	66–67
	Glue Laminated Arches	68–69
	Domes	
BRICK & CONCRETE	Lintels	74–75
		84–85
STEEL	Corrugated Decking	96–97
	Light Gauge Joists	90–91
	Beams	98–99
	Open-Web Joists	100–101
	Single-Story Rigid Frame	102–103
	Heavy Trusses	104–105
	Arches and Vaults	
	Space Frame	
	Domes	
	Cable-Stayed	
	Suspension	
CONCRETE	Two-Way Slabs	118–121
	One-Way Joists	116–117
	Waffle Slab	122–123
	Beams	112–113
	Folded Plates and Shells	
	Domes	
	Arches	
PRECAST CONCRETE	Slabs	132–133
	Beams	130–131
	Double Tees	134–135
	Single Tees	134–135
PNEUMATIC	Air Inflated	
	Air Supported